

TUCAN

Article number: 065868

SHUTTERS

SUN PROTECTION

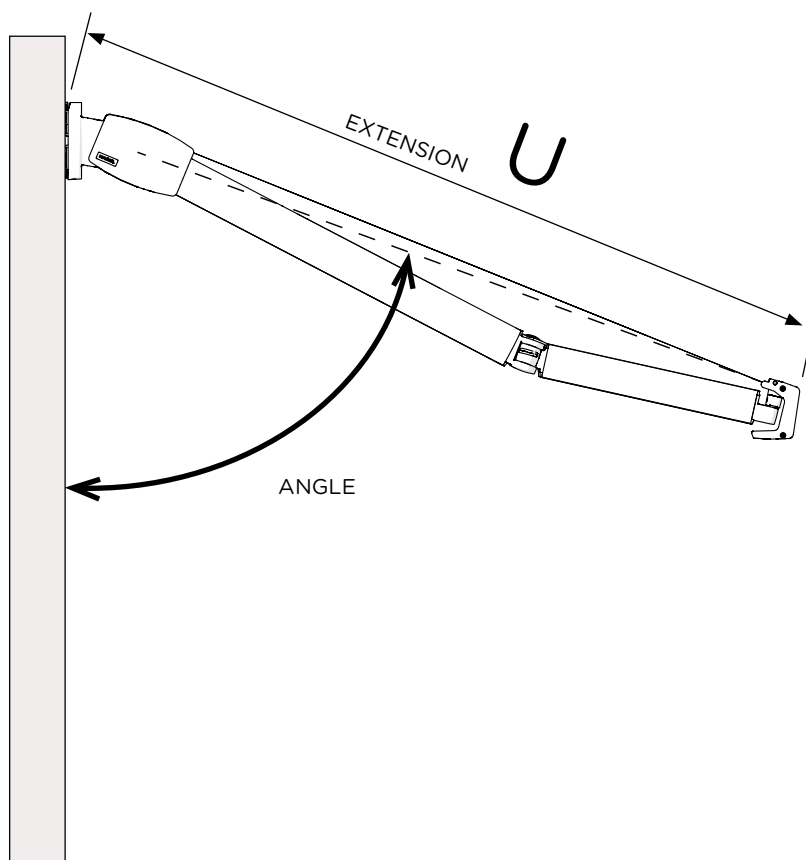
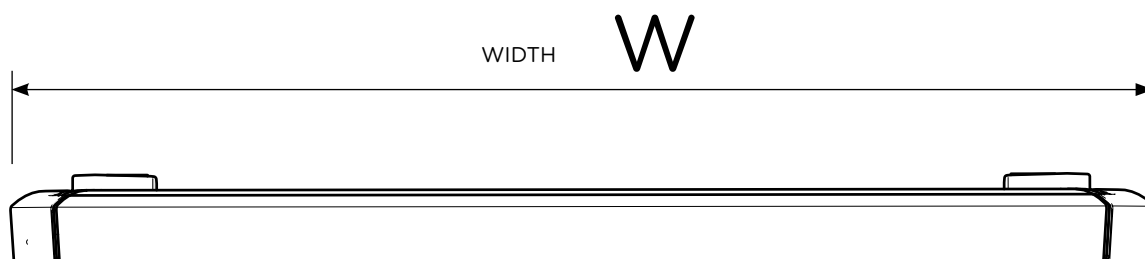
HAROL

TABLE OF CONTENTS	
1. General	3
2. Installation types	4
3. Profiles & components	6
4. Minimum and maximum sizes	9
5. Weight	9
6. Operation	9
7. Optional	10
8. Fabrics	11
9. Measurement and installation	11
10. Accessories	13
11. Delivery	13
12. Use and maintenance	13
13. Safety	13
14. Order form	13
15. Technical drawings	14
16. Dimensions	17

TUCAN TECHNICAL DATA SHEET

1. GENERAL

- TUCAN is a cassette folding-arm awning.
- Its construction is characterised by a box profile, a front profile, and a roller tube that are mounted between and onto the side consoles together with the folding arms.
- The consoles form the core of the system and serve both to fasten the awning to the wall and to set the extension angle.
- The awning has a full box profile and a full drop tube.
- Optionally available without a box profile.
- Colour of the aluminium components and profiles: chosen frame colour as standard (see colour chart).



ELECTRICAL OPERATION



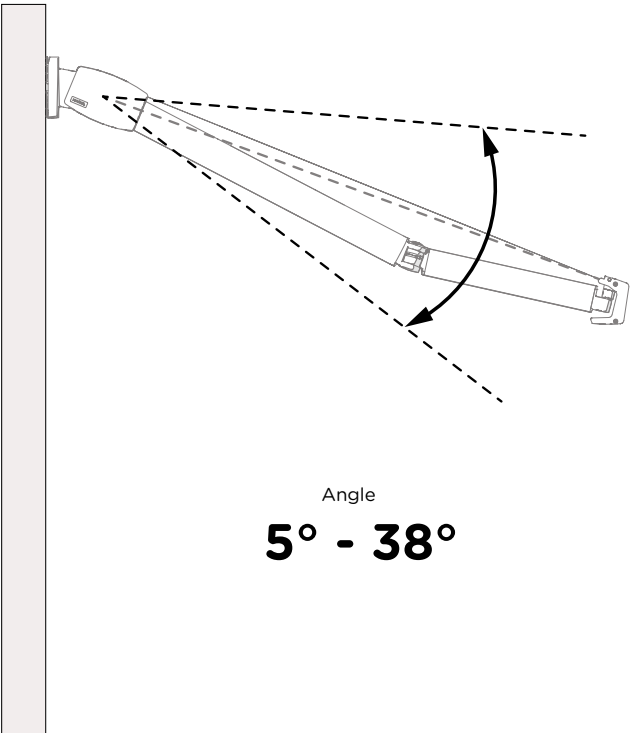
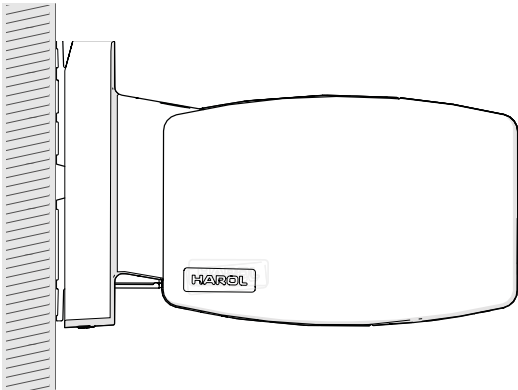
MANUAL OPERATION



2. INSTALLATION TYPES

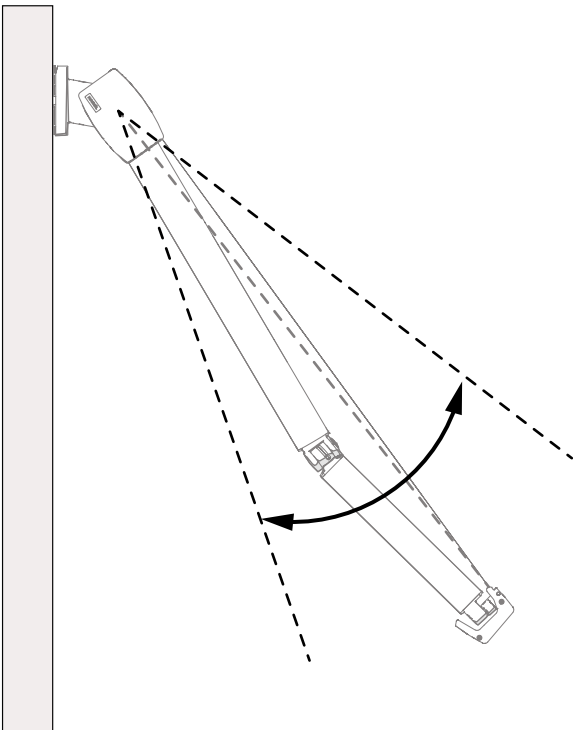
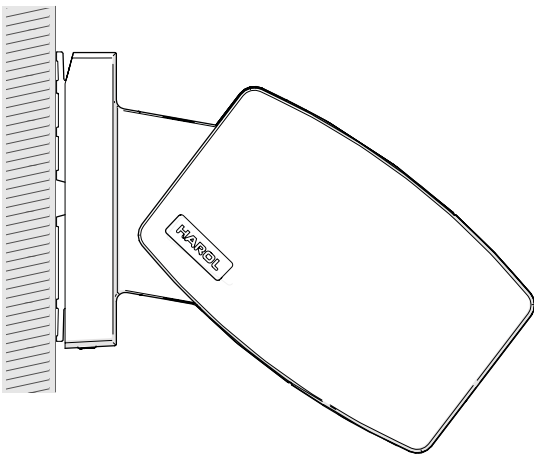
TYPE 1

WALL-MOUNTED



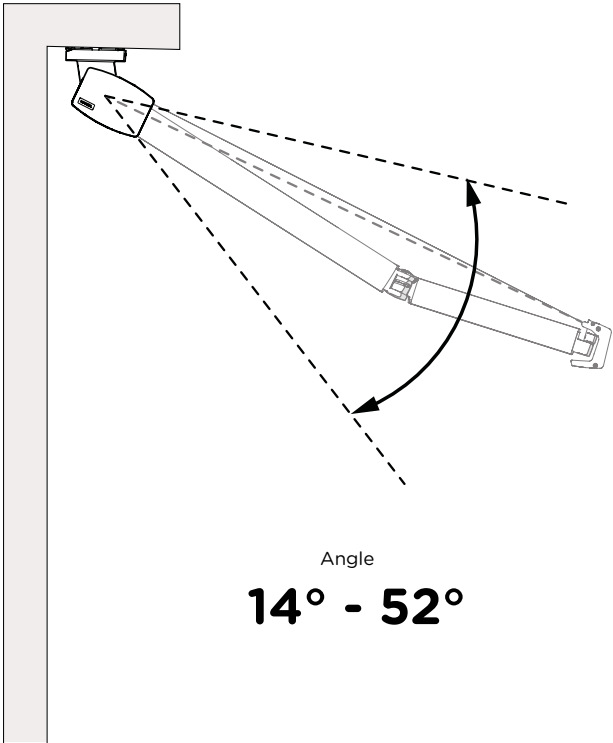
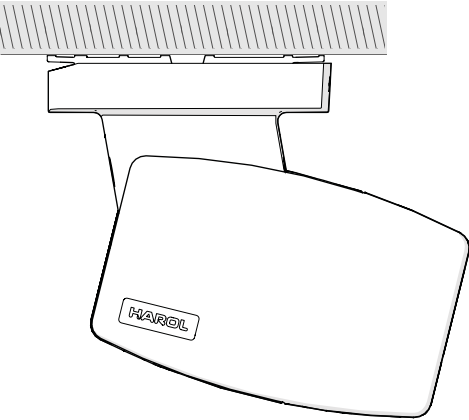
TYPE 2

WALL-MOUNTED



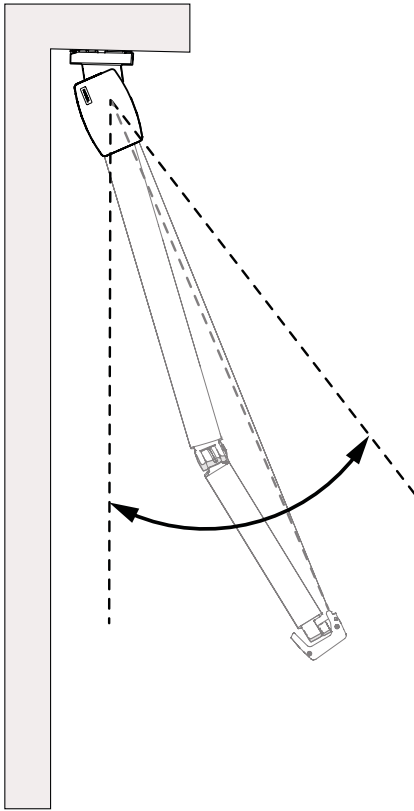
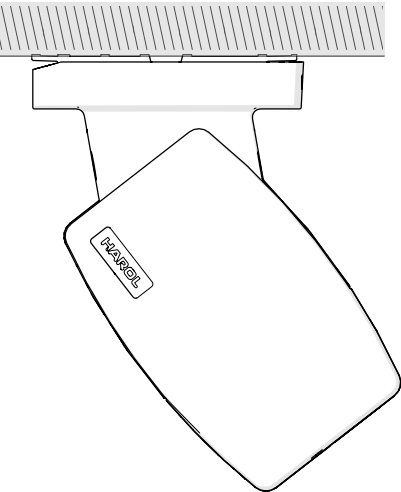
TYPE 3

CEILING-MOUNTED



TYPE 4

CEILING-MOUNTED

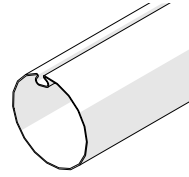


TUCAN TECHNICAL DATA SHEET

3. PROFILES & COMPONENTS

3.1. Roller tube

- Material: round, welded tube made of Sendzimir-galvanised steel strip.
- Function:
 - Rolls the fabric up and down.
 - Fitted with a groove to attach the fabric.
 - Diameter: Ø78 x 1 mm.



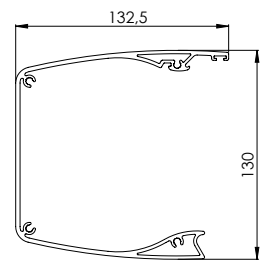
3.2. Clip-on/clip-off profile

- Material: extruded PVC clip profile.
- Function:
 - Screw-free attachment of the fabric to the roller tube.
 - Facilitates quick and easy fitting and removal of the fabric.



3.3. Cover profile

- Material: powder-coated extruded aluminium.
- Function:
 - Covers the fabric along its entire width, either on top or all around.
 - A plastic sliding strip is fitted to the front to protect the fabric.



3.4. Front profile

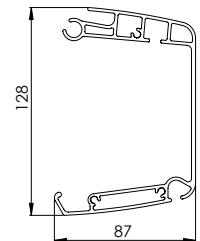
- Material: powder-coated extruded aluminium.
- Function:
 - Closes off the front of the awning.
 - Fitted with:

On the top side:

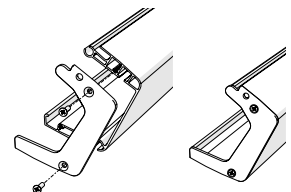
- A groove to attach the fabric.
- A groove to attach the arms.

On the underside:

- A groove to attach a flounce.

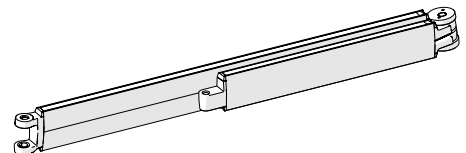


Finished with aluminium caps at the ends: (coated in the same colour as the front profile).



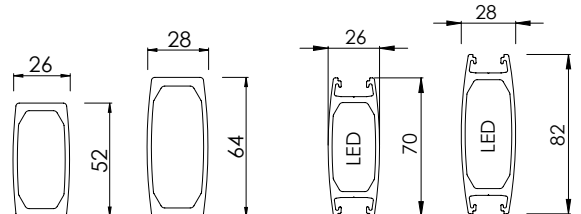
3.5. Folding arms

- Connect the box and the front profile.
- Can be supplied in the following extensions: 1500, 2000, 2500, 3000 and 3500 mm.
- Two arms are fitted up to a maximum width of 6000 mm.
- Available with integrated LED lighting (optional)



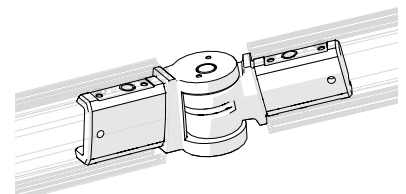
3.6. Arm profiles:

- Material: powder-coated extruded aluminium.



3.7. Hinges:

- Material: cast aluminium alloy.
- Hinges on plain bearings made of sintered bronze with a PTFE sliding layer.
- The components bearing the heaviest loads are heat-treated.

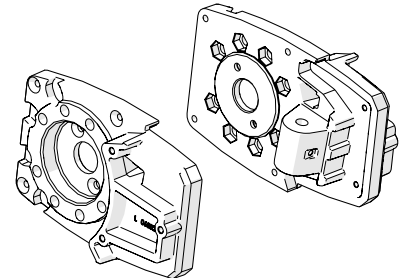


3.8. Springs and steel cables:

- Material: pre-galvanised high-quality steel.
- The diameter of the cables is proportional to the forces acting on them.
- The force of both springs is distributed across two steel cables:
 - Halves the forces.
 - Significantly longer service life.

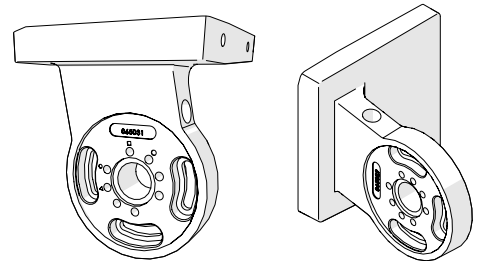
3.9. Side consoles

- Material: powder-coated cast aluminium.
- Function:
 - Closes off the sides of the awning.
 - The two folding arms are fitted directly to the side consoles.
 - The consoles are fitted with a plastic, wedge-shaped inlet funnel to catch the front profile as it retracts.
 - The consoles come with various holes to choose the (approximate) angle of the awning.



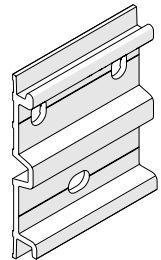
3.10. Wall/ceiling console

- Material: powder-coated cast aluminium.
 - Function:
 - Connect the side consoles and the mounting brackets.
 - The awning can be mounted to either the wall or the ceiling, depending on the positioning of the wall/ceiling console on the side console.
- (The installation type must therefore always be specified.)*



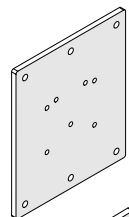
3.11. Mounting bracket

- Material: powder-coated extruded aluminium.
- Function:
 - Mounting the system against a wall or ceiling.
 - Width: 120 mm.
 - Comes with three slots to mount the bracket to the supporting surface, plus a groove to secure the system to the wall/ceiling consoles.



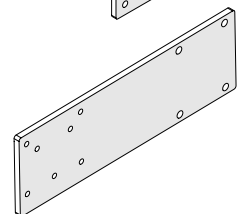
3.12. Backplate wall console: (optional A1654)

- For standard mounting on a wall.
- Material: powder-coated aluminium.
- Width: 300 mm and fitted with 6 mounting holes for M12.
- Thickness: 12 mm

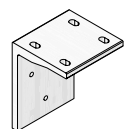


3.13. Side plate wall console: (optional A2746)

- Side plates are recommended when an awning needs to be mounted close to a corner or at the end of a wall. Thanks to the wide side plate, the awning can still be anchored to a solid surface, e.g. the inner wall.
- Material: powder-coated aluminium.
- Width: 520 mm and fitted with 4 mounting holes for M12.
- Thickness: 12 mm

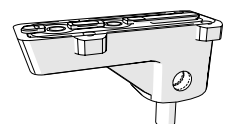


3.14. Ceiling console: (optional A2743)



3.15. Front profile attachment

- Material: powder-coated cast aluminium.
- Function:
 - Keeps the front profile in the correct position so that it always closes the awning correctly.



TUCAN TECHNICAL DATA SHEET

3.16. Angle adjustment

- Function: allows fine adjustment of the awning angle.
 - Easy angle adjustment.
 - The awning will tilt as a whole.
 - No further adjustment of the front profile required.
- Secures the arms against being lifted by the wind and against sagging.
- The angle can be set between 0° and 90° depending on the installation type.
- The angle is set from underneath in wall-mounted awnings and from the front in ceiling-mounted awnings.

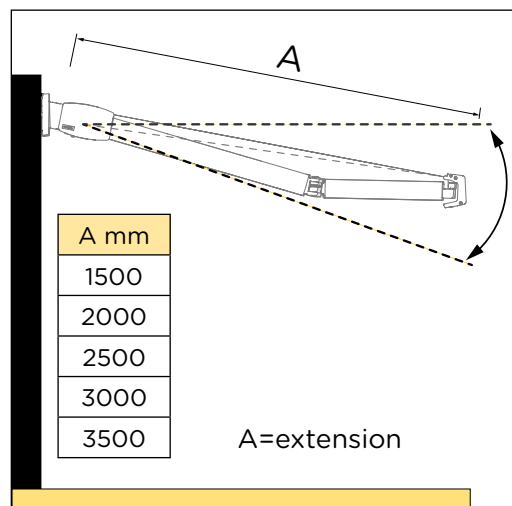
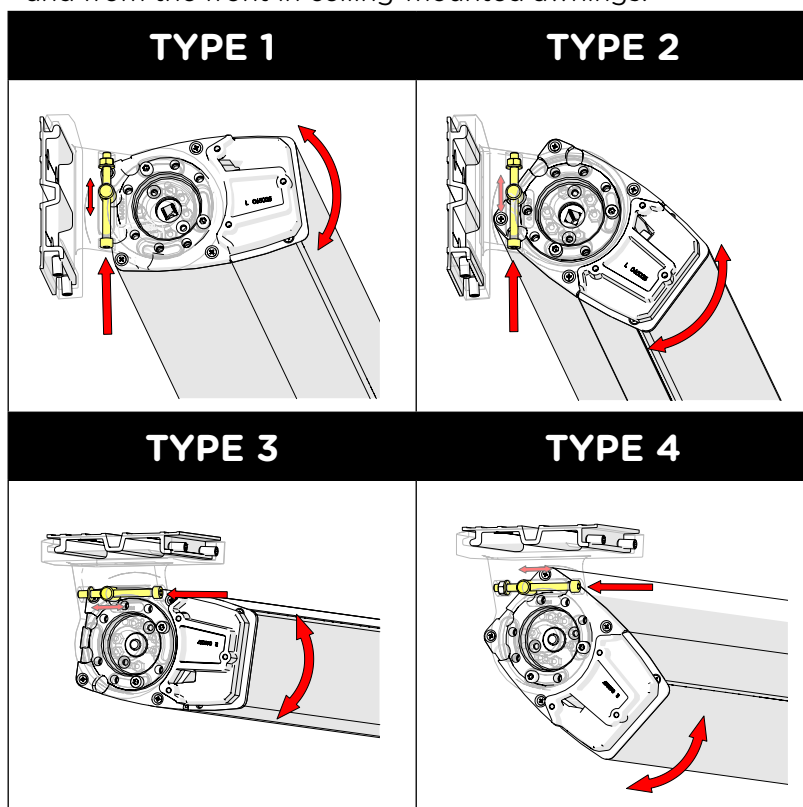


Table 1: Angle per installation type

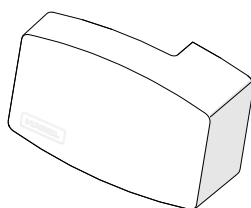
Installation type	Angle (in °)
1	5 - 38
2	38 - 76
3	14 - 52
4	52 - 90

Table 2: Angle in relation to extension (approximate values)

Installation type	Angle (in °)	Extension				
		1500	2000	2500	3000	3500
1	0	0	0	0	0	0
	38	995	1300	1610	1915	2223
2	38	995	1300	1610	1915	2223
	76	1525	2010	2495	2980	3465
3	14	435	555	675	795	915
	52	1250	1645	2040	2435	2830
4	52	1250	1645	2040	2435	2830
	90	1570	2070	2570	3070	3570

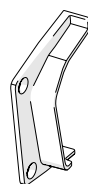
3.17. Side console covers

- Material: powder-coated cast aluminium.
- Function:
 - Finish the sides of the side consoles.
- With motor operation: a cover on both sides of the box.
- With crank handle operation: a cover on both sides to enclose the crank mechanism and for the symmetry of the awning.



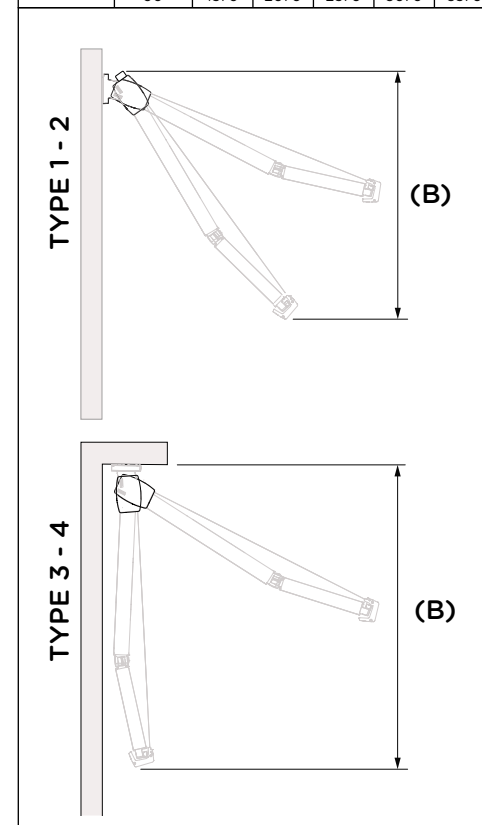
3.18. Front profile inlet

- Material: moulded plastic.
- Function:
 - Its wedge shape ensures the retracting front profile always closes the box in the exact same way.



3.19. Fasteners

Folding-arm awnings exert considerable force on the supporting surface. We therefore recommend fitting the awning using chemical anchors (e.g. Hilti, Würth) or other suitable fasteners.



TUCAN TECHNICAL DATA SHEET

4. MINIMUM AND MAXIMUM SIZES

WIDTH

- Maximum
 - 6.0 m in 1 section with 2 arms.
 - Cannot be joined together.

- Minimum

(extension + 580 mm)

EXTENSION / mm	MOTOR Min. width /mm	CRANK Min. width / mm
1500	2080	2080
2000	2580	2580
2500	3080	3080
3000	3580	3580
3500	4080	4080

EXTENSION

- Maximum 3.5 m
- Minimum 1.5 m

5. WEIGHT

- Approximate weight: ± 11 kg per metre (width).

6. OPERATION

ELECTRICAL

STANDARD	OPTIONAL
- The standard motor is the Sunea io motor, without push buttons, operated by an io transmitter. • io transmitter. • Cable length: 5 m.	- Without io wall transmitter. - Cable length: 10 m instead of 5 m. - Other motor types: Orea WT - LT.

Prod. Type	MOTOR TYPE	OPTION	Surcharge	CABLE LENGTHS		
				3M	5M	10M
TUCAN	Sunea io	Standard	-	-	S	X
	OREA WT	A2619	Price reduction	S	X	X
	LT*	A1546	Price reduction	S	X	X

S: Standard X: Optional

*: Without box profile

Note: The upper and lower limit positions of the motor are factory-set.

- Motor with emergency manual operation not possible.
- For group controls and automation: see the Harol home automation catalogue.

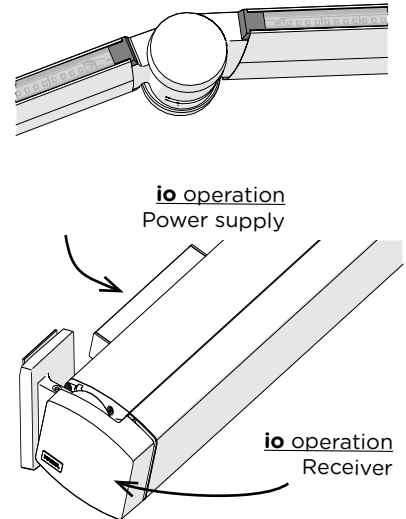
MANUAL OPERATION

STANDARD	OPTIONAL
- Self-locking worm gear. - 7:1 gear ratio. - Crank rod with handle: length 1600 mm. - Maximum width: 6000 mm.	- Longer crank rod. • Bevel gear not possible.

7. OPTIONAL

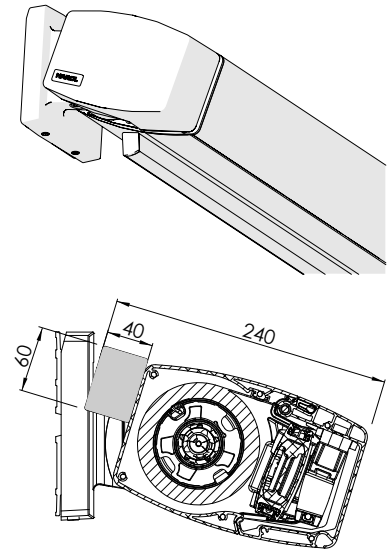
7.1. LED lighting in the arms

- Optional
- The lighting consists of an LED profile, an LED strip, a power supply (230 V AC – 24 V DC) and a receiver, if applicable.
- The LED strip is glued into the arm profiles.
- The power supply is mounted on the plate, behind the side console cover.
- The io receiver is placed on the box profile.
- At both ends of the arm profiles, a short section may be lit less intensely, depending on the cut length of the LED strip.
- The LED strip operates at 24 V, 9.6 W/m.
- The lighting is intended as mood lighting. LED colour: warm white (600 lumens/m – 3000 K).



7.2. LED lighting under the box

- Optional
- The lighting consists of an LED profile, an LED strip, a power supply (230 V AC – 24 V DC) and, if required, a receiver.
- The LED strip is glued into the LED profile.
- The power supply and io receiver are inserted into a 60 x 40 mm rectangular tube at the rear of the awning.
- If LED lighting is required in both the arms and the box, two rectangular tubes are provided, always located at the far left and far right behind the awning.
- The LED profile is clicked onto the adapted mounting clips.
- The lighting can be used when the awning is extended or retracted.
- The LED strip is always provided across the entire width of the awning.
- At both ends, the lighting may be slightly less intense, depending on the cut length of the LED strip.
- The LED strip operates at 24 V, 9.6 W/m.
- The lighting is intended as mood lighting. LED colour: white (600 lumens/m – 3000 K).



Operation:

There are 2 options for operating the LED lighting (power supply and receiver integrated in the awning):

1. Dimmable io operation

The lighting cannot be operated using Smoove io controls.

2. Without receiver

A power cable is provided that can be connected to a push button.

- The remote control is not included with the LED lighting.
- 3-metre power cable.

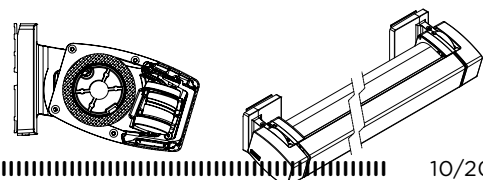
7.3. Raised wall brackets per pair (optional)

- Material: extruded aluminium with powder coating.
- Function: mounting the folding-arm awning on weaker walls.
- Available in two lengths:
 - L = 500 mm (A1200)
 - L = 750 mm (A1900)

Caution: use all screw holes (to keep the pull-out force as low as possible).

7.4. Open box

- No box profile is provided. The fabric is not protected.
- LED lighting with dimmable io control not possible.



TUCAN TECHNICAL DATA SHEET

8. FABRICS

ACRYLIC

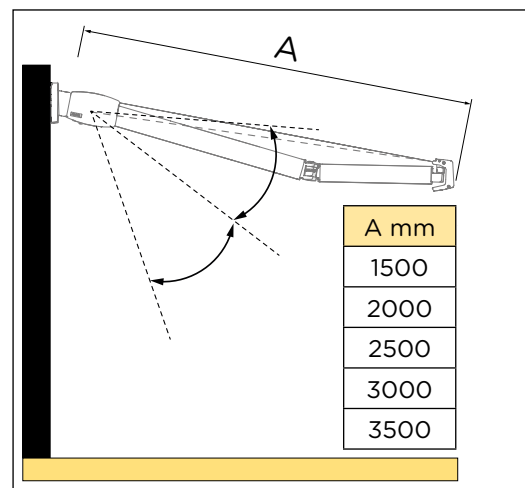
- Composition: Mass-dyed acrylic fibre.
 - Colour: Fancy and plain colours according to the collection book.
 - Weight: $\pm 290\text{--}300 \text{ g/m}^2$.
 - Thickness: $\pm 0.5 \text{ mm}$.
 - Make-up:
 - 1200 mm vertical strips.
 - 50 mm side seams.
 - Double lockstitch with polyester thread.
 - Rot-proof, mould- and dirt-resistant.
- “Infinity” with a maximum roll width of 3200 mm
 - Colours: plain colours only
 - Make-up:
 - 1 horizontal panel
 - no side seams
 - always with tunnel make-up

WIDE-WIDTH FABRIC

9. MEASUREMENT AND INSTALLATION

9.1. Guidelines for correct measurement

- Width:
 - Measured from the outside of the side console covers.
 - The fabric is always narrower than the width of the awning.
- Extension:
 - Measured from the rear of the box (top) to the front of the front profile.
 - An installed awning will always reach a little further (from the wall) than the specified extension.
- For optimal sun protection, the awning must extend sufficiently to the left and right beyond the window.
- If ceiling-mounted: leave sufficient distance to secure the system and set the angle, which must be done from the rear (see also Fig. 16).



A=extension

9.2. Installation

- Take the quality of the supporting surface into account:
 - For poor-quality walls, aerated concrete or soft or hollow bricks: use suitable fasteners.
- Install the awning at an adequate height (minimum 2500 mm).
- Set the angle between a minimum of 0° and a maximum of 90° (depending on the installation type; allow adequate headroom when the awning is extended).
- If fitted between 2 walls, remember to leave adequate space to the left and right to fit and remove the box side covers.

NOTE:

When the awning is retracted, there may be a small gap (1 mm/m width) between the front profile and the box profile.

TUCAN TECHNICAL DATA SHEET

9.3. Wind resistance class and forces on screws

This folding-arm awning has been tested up to **wind resistance class 2**, provided it is correctly installed with suitable fasteners.

At wind resistance class 2, the following forces act on the screws:

TUCAN ⇒ MOUNTING TYPE 1 / MOUNTING TYPE 2 / WALL MOUNTING

TENSILE FORCE PER UPPER FIXING POINT OF A STANDARD WALL CONSOLE [N].

U \ B	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
1500	449	508	566	624	682	741	799	857	916	974	1032	1090	1149	1207	1265	1324	1382	1440
2000	716	810	903	997	1090	1184	1277	1370	1464	1557	1651	1744	1837	1931	2024	2118	2211	2304
2500	1042	1179	1315	1451	1588	1724	1860	1997	2133	2269	2406	2542	2678	2815	2951	3087	3223	3360
3000	1427	1614	1801	1988	2175	2362	2549	2736	2923	3110	3297	3484	3671	3858	4046	4233	4420	4607
3500	1870	2116	2361	2607	2853	3098	3344	3589	3835	4080	4326	4571	4817	5063	5308	5554	4112	4281

■ WIND RESISTANCE CLASS 1

TUCAN ⇒ MOUNTING TYPE 3 / MOUNTING TYPE 4 / CEILING MOUNTING

TENSILE FORCE PER UPPER FIXING POINT OF A STANDARD WALL CONSOLE [N].

U \ B	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
1500	949	1069	1189	1309	1430	1550	1670	1790	1910	2030	2151	2271	2391	2511	2631	2751	2872	2992
2000	1476	1665	1854	2044	2233	2422	2611	2800	2989	3178	3367	3557	3746	3935	4124	4313	4502	4691
2500	2119	2392	2666	2939	3212	3486	3759	4033	4306	4579	4853	5126	5400	5673	5946	6220	6493	6766
3000	2877	3250	3623	3996	4369	4742	5115	5488	5861	6234	6607	6979	7352	7725	8098	8471	8844	9217
3500	3750	4238	4725	5213	5701	6189	6677	7165	7653	8141	8629	9117	9605	10092	10580	11068	8241	8579

■ WIND RESISTANCE CLASS 1

TUCAN (ACRYL) ⇒ WITH RAISED WALL BRACKET 500

TENSILE FORCE PER UPPER FIXING POINT [N].

U \ B	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
1500	1496	1690	1884	2078	2273	2467	2661	2855	3049	3243	3437	3631	3825	4019	4213	4408	4602	4796
2000	2386	2697	3008	3319	3630	3941	4252	4563	4874	5185	5496	5807	6118	6429	6740	7051	7362	7673
2500	3471	3925	4379	4833	5287	5741	6195	6649	7103	7557	8011	8464	8918	9372	9826	10280	10734	11188
3000	4752	5375	5998	6620	7243	7866	8489	9112	9735	10357	10980	11603	12226	12849	13472	14094	14717	15340
3500	6228	7046	7863	8681	9499	10317	11134	11952	12770	13587	14405	15223	16041	16858	17676	18494	13692	14255

■ WIND RESISTANCE CLASS 1

TUCAN (ACRYL) ⇒ WITH RAISED WALL BRACKET 750

TENSILE FORCE PER UPPER FIXING POINT [N].

U \ B	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
1500	2300	2599	2897	3196	3494	3793	4091	4389	4688	4986	5285	5583	5882	6180	6478	6777	7075	7374
2000	3668	4147	4625	5103	5581	6060	6538	7016	7494	7972	8451	8929	9407	9885	10363	10842	11320	11798
2500	5337	6035	6733	7431	8129	8827	9525	10223	10921	11619	12317	13014	13712	14410	15108	15806	16504	17202
3000	7306	8264	9221	10179	11137	12094	13052	14010	14967	15925	16883	17840	18798	19755	20713	21671	22628	23586
3500	9576	10833	12090	13348	14605	15862	17119	18377	19634	20891	22149	23406	24663	25920	27178	28435	21053	21918

■ WIND RESISTANCE CLASS 1

TUCAN (ACRYL) ⇒ WITH BACKPLATE

TENSILE FORCE PER UPPER FIXING POINT [N].

U \ B	1750	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000	5250	5500	5750	6000
1500	107	120	134	148	162	176	190	204	218	231	245	259	273	287	301	315	329	342
2000	168	190	212	234	256	277	299	321	343	365	387	409	431	453	475	497	519	540
2500	242	274	306	338	369	401	433	465	496	528	560	592	623	655	687	719	750	782
3000	331	374	417	461	504	547	591	634	677	721	764	808	851	894	938	981	1024	1068
3500	432	489	546	602	659	716	773	829	886	943	1000	1056	1113	1170	1227	1283	953	992

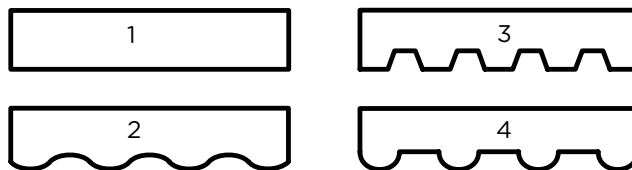
■ WIND RESISTANCE CLASS 1

TUCAN TECHNICAL DATA SHEET

10. ACCESSORIES

10.1. Flounce (OPTIONAL)

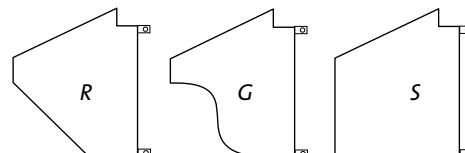
- Type 2 (wavy) as standard.
- Other flounce types can be selected.
- The standard flounce height is 250 mm, other heights are available.



Flounce shapes

10.2. Side flaps (OPTIONAL)

- Fitted to the side of the awning, between the box and the front profile.
- Available in various standard formats or as per customer drawings.
- Can be fitted when the awning is extended, must be removed before the awning is retracted.



Side flaps

10.3. Printing (OPTIONAL)

- Available on the flounce and/or the fabric (optional).
- If printed, the standard flounce height is 300 mm.

Caution: Text on striped fabrics and flounces is often difficult to read.
Please select a plain fabric in this case.

11. DELIVERY

- Fasteners not included.
- Protected with plastic foil and fully packaged in strong cardboard.

12. USE AND MAINTENANCE

- Appropriate use will significantly extend the lifespan of the awning.
- Do not use the awning as rain or wind protection.
- Regular maintenance will prevent wear and performance issues.
 - Cleaning the frame: use soft water instead of aggressive substances (which may damage the coating and protective layers).
 - Cleaning the fabric:
 - » Use a stiff brush.
 - » Remove tough stains using a lukewarm soft soap solution (rinse thoroughly with clean water)
- Leave the fabric to dry completely before retracting it (this also applies after an unexpected shower).

For more info, please see the user manual.

13. SAFETY

For safety reasons, the awning must be installed in accordance with good professional practice.

14. ORDER FORM

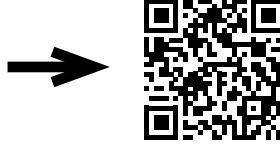
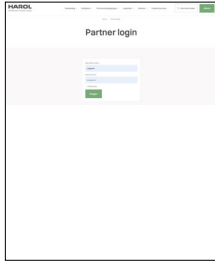
Click on the link below:



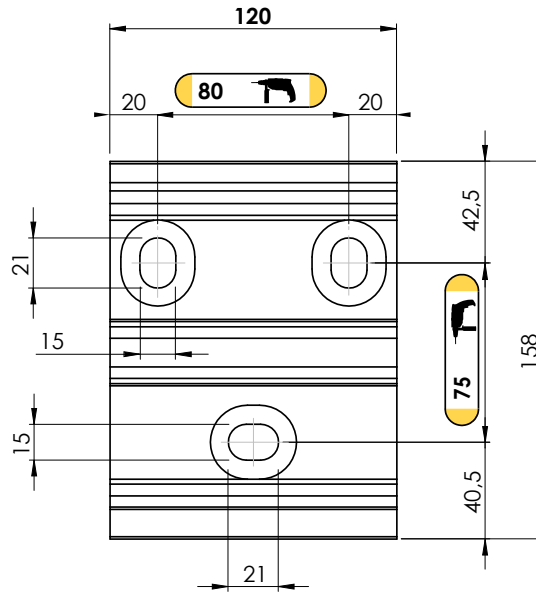
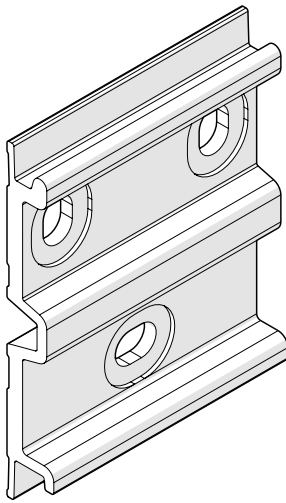
TUCAN TECHNICAL DATA SHEET

15. TECHNICAL DRAWINGS

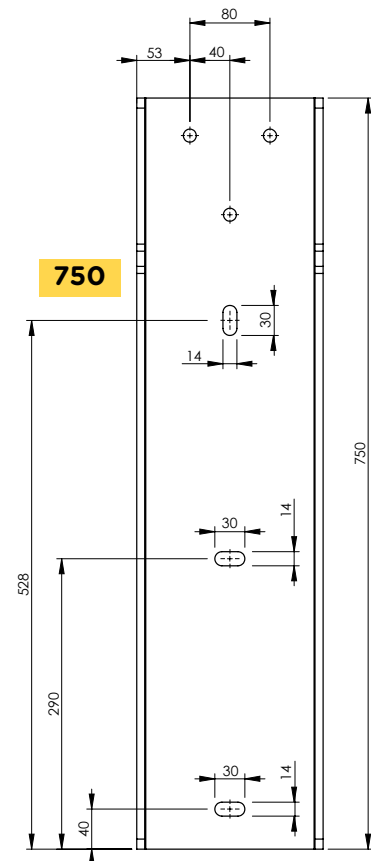
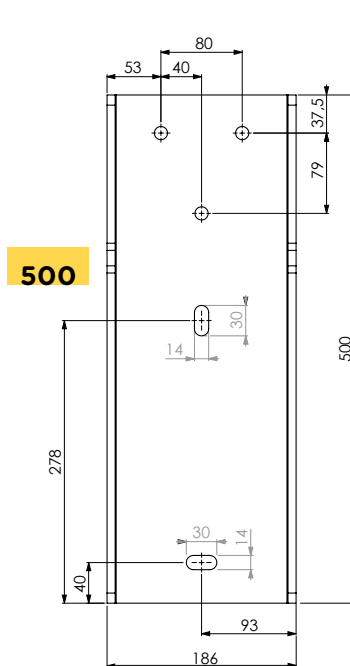
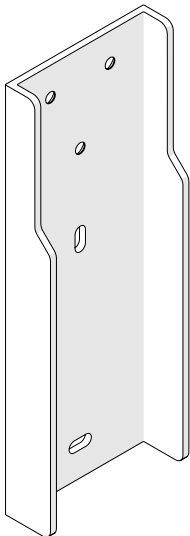
FOR DIGITAL DRAWINGS OR MORE TECHNICAL INFORMATION, PLEASE VISIT THE HAROL PORTAL
Contact our marketing team for login details or register online via www.harol.com



Mounting bracket

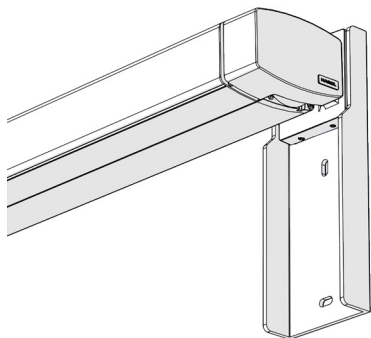


Raised wall bracket

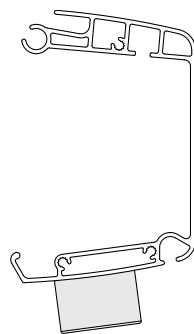


TUCAN TECHNICAL DATA SHEET

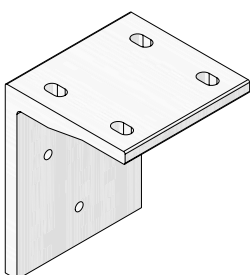
Raised wall bracket



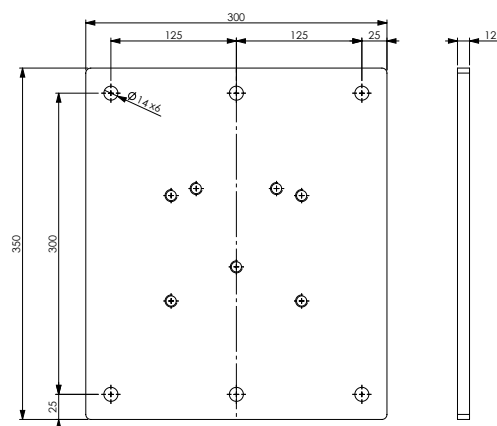
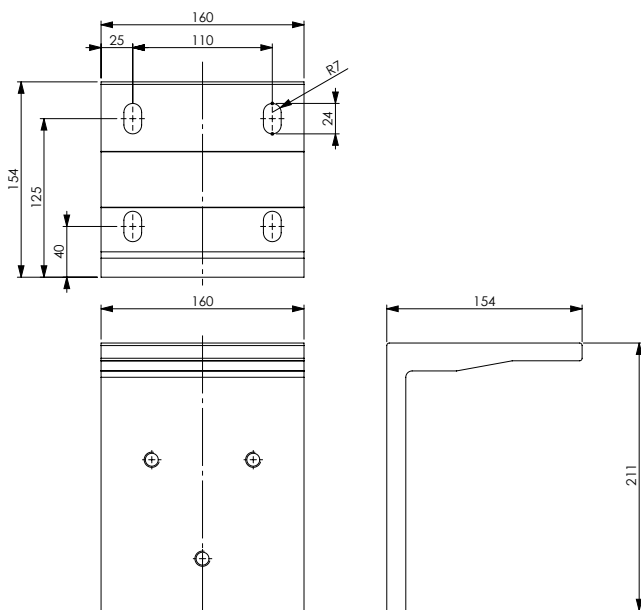
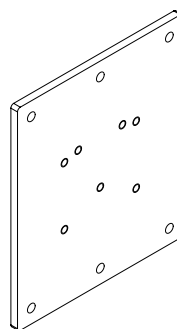
EOLIS 3D (position on front profile)



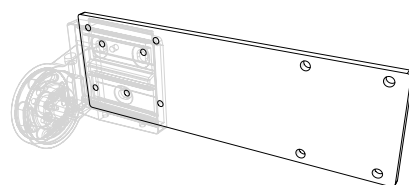
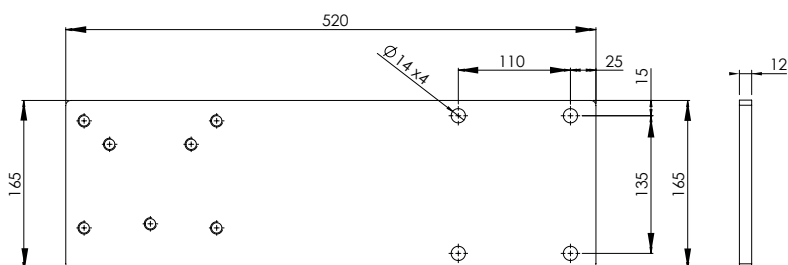
Ceiling console



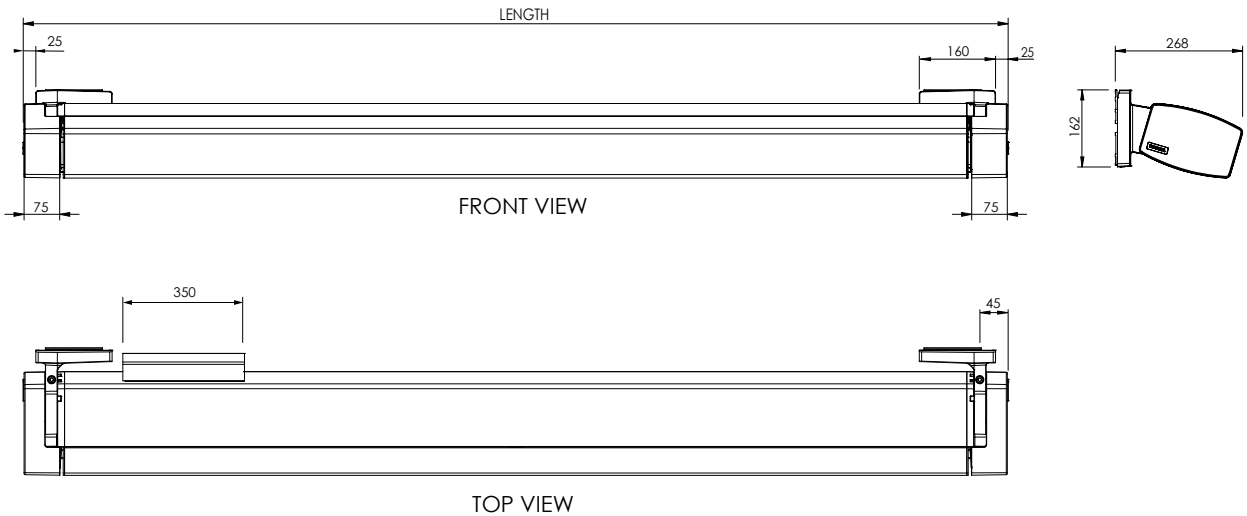
Backplate wall console



Side plate wall console

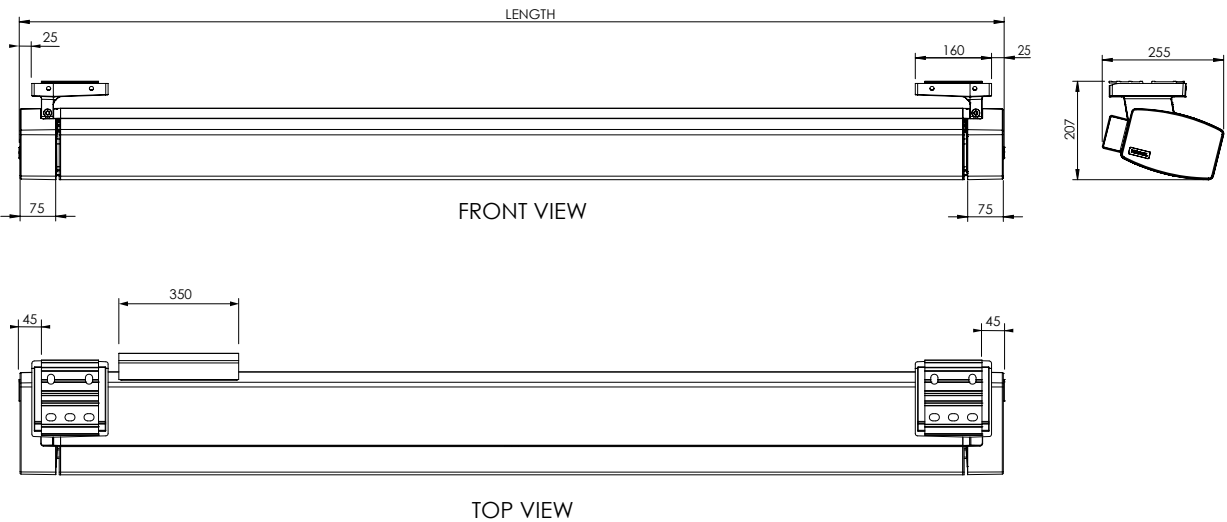


TUCAN TECHNICAL DATA SHEET



Not indicated size- and shape tolerances: EN				Not indicated wall thickness:			
Design date: 23/01/2020		TUCAN ELECTRICAL - TYPE 1					
Printed on: 23/01/2020	Designed by:						
EUROPEAN PROJECTION	Sheet: 1 of 1						
	unit of measure: mm						
		finish:	Surface area:		Material:		Volume:
PROPERTY OF		lx=	Coating surface:		S.G.: g/cm³		Weight:
HAROL® Industriepark 3 - 3290 DIEST TEL. 013/38 01 11 - Fax. 013/31 48 03		ly=	STATUS		PLAN-NUMBER		ARTICLE-NUMBER
		SCALE 1:20			D19-00020 - #_00		

Size A4



Not indicated size- and shape tolerances: EN				Not indicated wall thickness:			
Design date: 23/01/2020		TUCAN ELECTRICAL - TYPE 3					
Printed on: 23/01/2020							
Designed by:							
EUROPEAN PROJECTION		Sheet: 1 of 1					
		unit of measure: mm					
		finish:		Surface area:		Material:	Volume:
		lx=		Coating surface:		S.G.: g/cm³	Weight:
PROPERTY OF		ly=		STATUS	PLAN-NUMBER		ARTICLE-NUMBER
HAROL® Industriepark 3 - 3290 DIEST TEL. 013/38 01 11 - Fax. 013/31 48 03		SCALE 1:20		WIP	D19-00021 - #_00		

Size A4

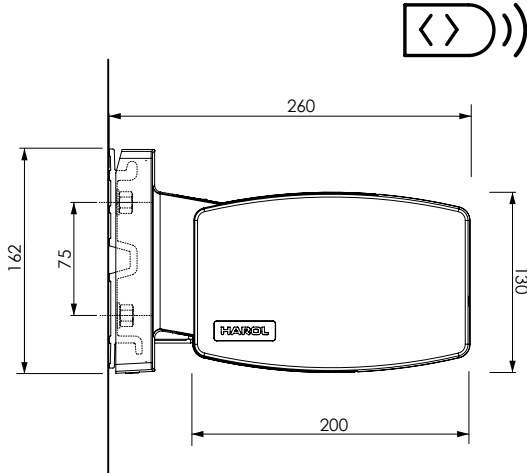
TUCAN TECHNICAL DATA SHEET

16. DIMENSIONS

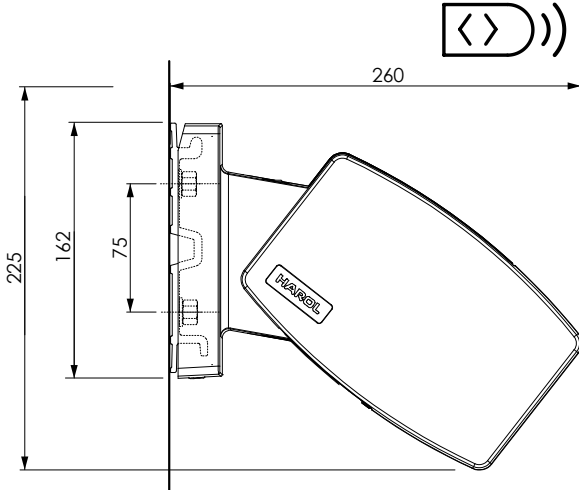
ELECTRICAL OPERATION

TYPE 1 / TYPE 2

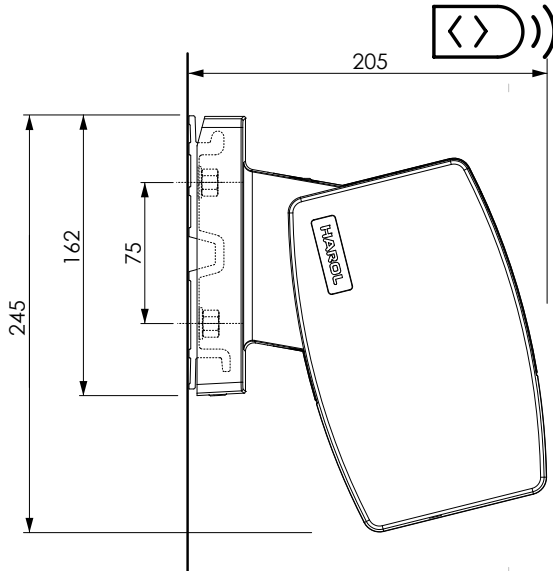
Angle **0°**



Angle **38°**

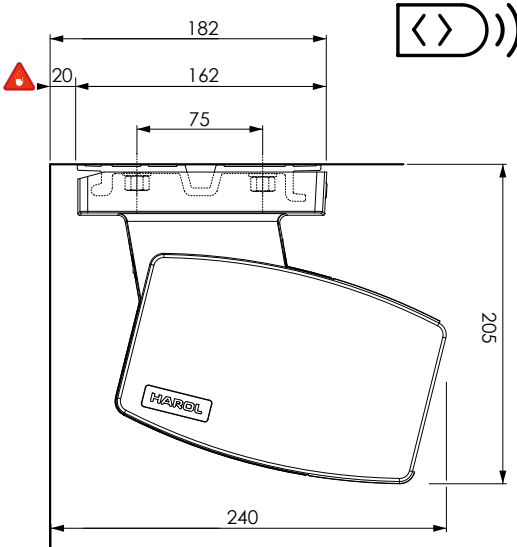


Angle **76°**

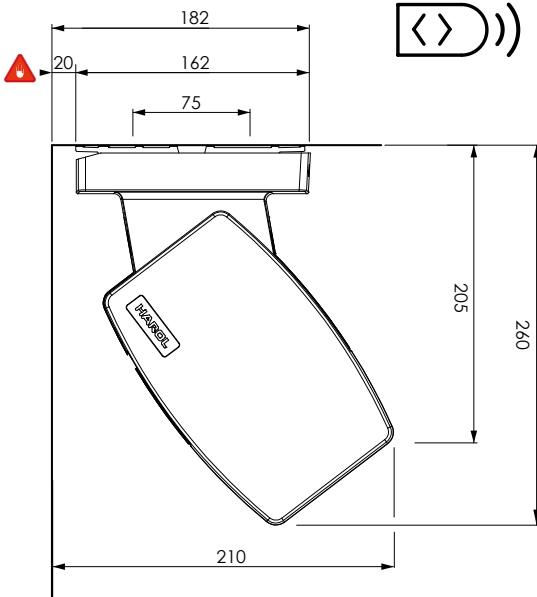


TYPE 3 / TYPE 4

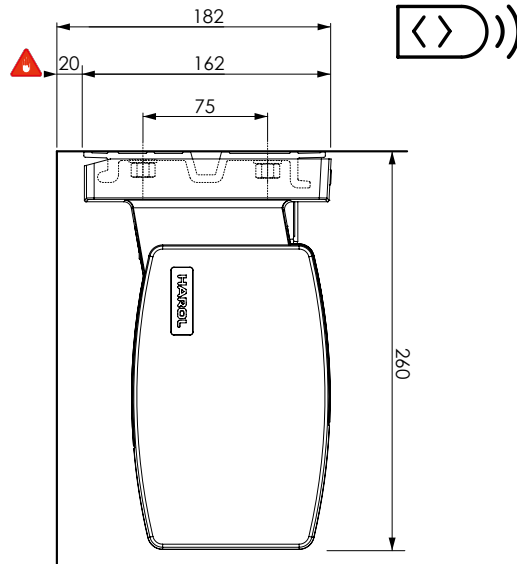
Angle **14°**



Angle **52°**



Angle **90°**



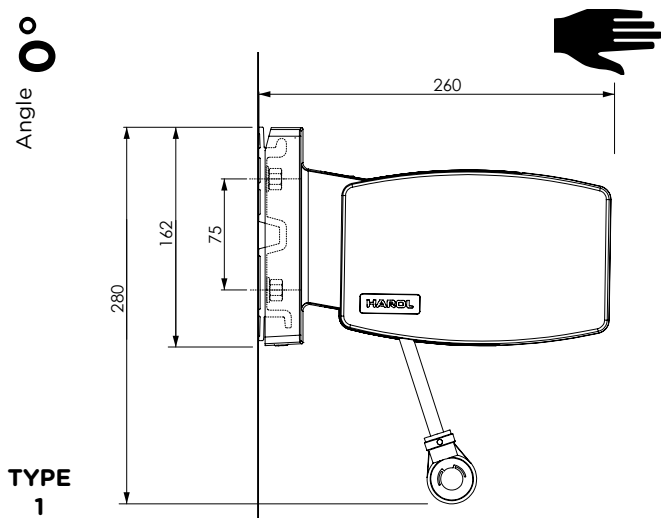
TUCAN TECHNICAL DATA SHEET

DIMENSIONS

MANUAL OPERATION

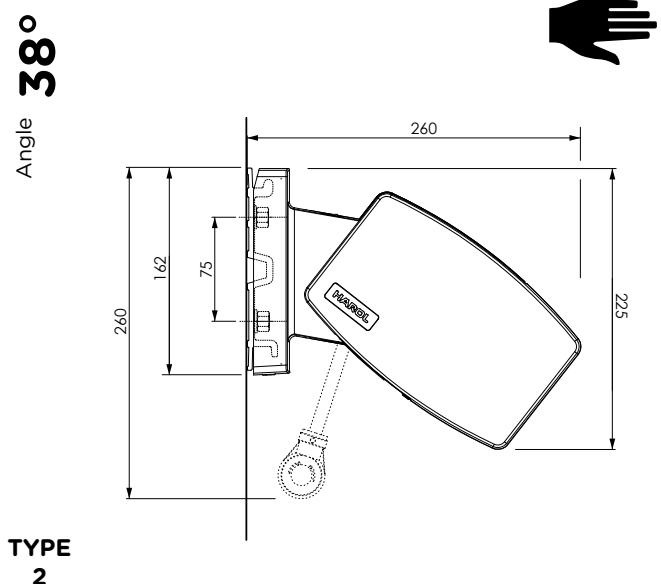
TYPE 1 / TYPE 2

Angle **0°**



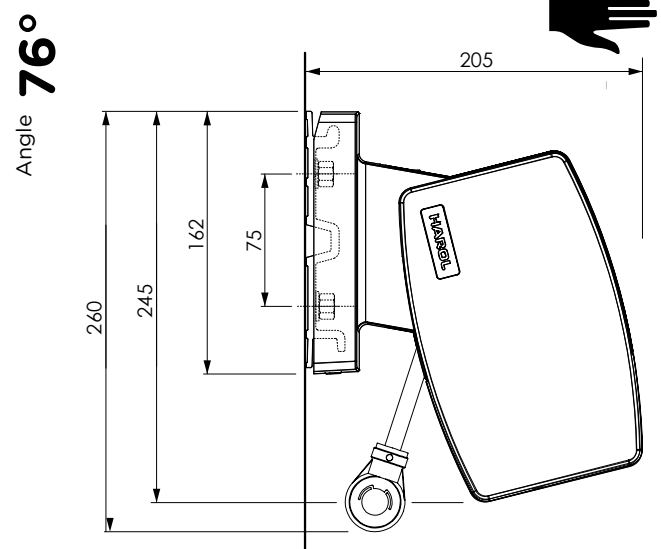
TYPE 1

Angle **38°**



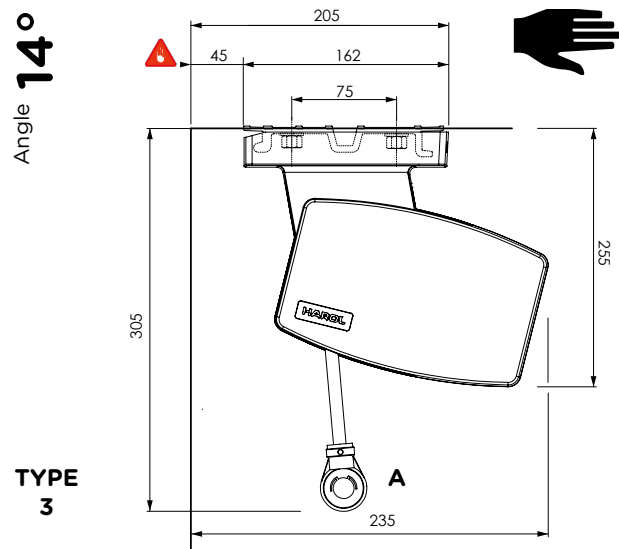
TYPE 2

Angle **76°**



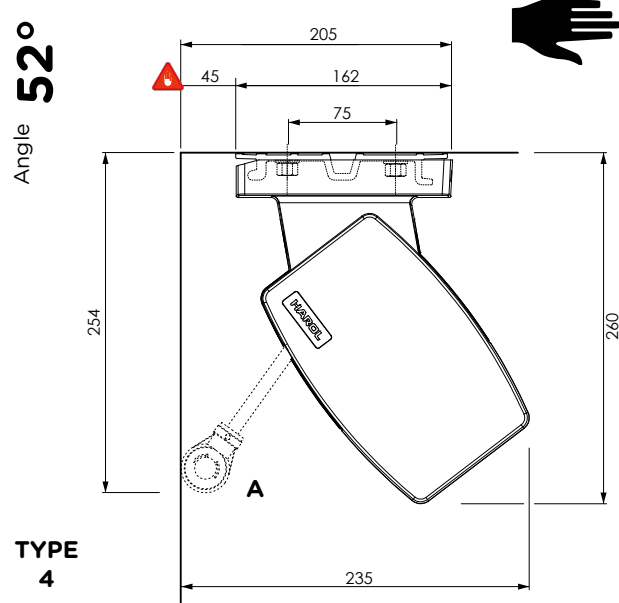
TYPE 3 / TYPE 4

Angle **14°**



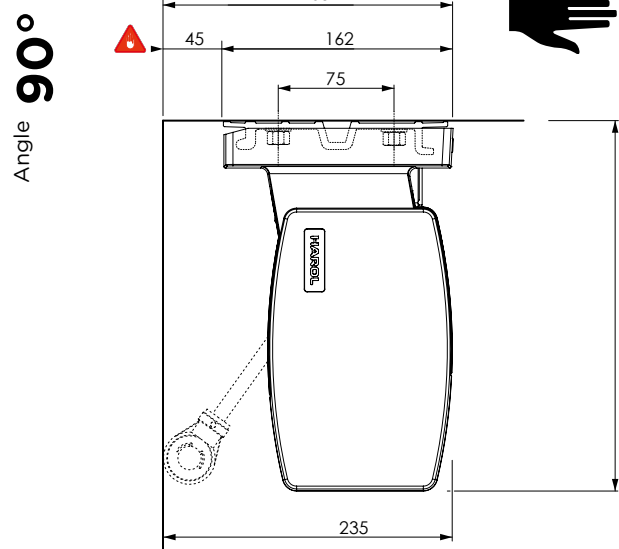
TYPE 3

Angle **52°**



TYPE 4

Angle **90°**

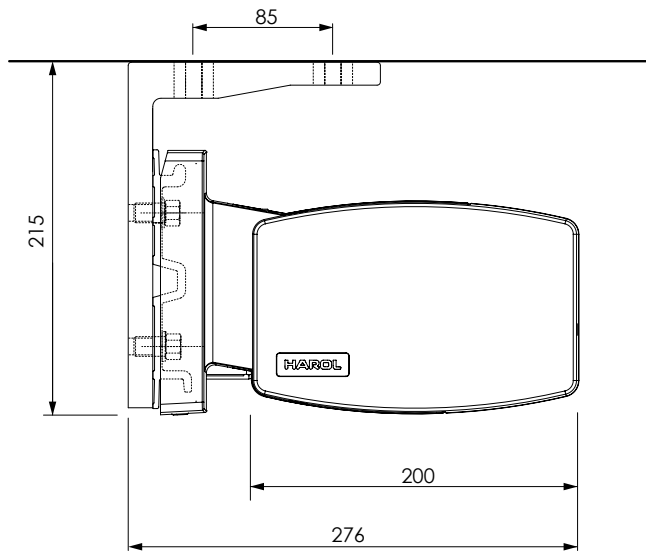


TUCAN TECHNICAL DATA SHEET

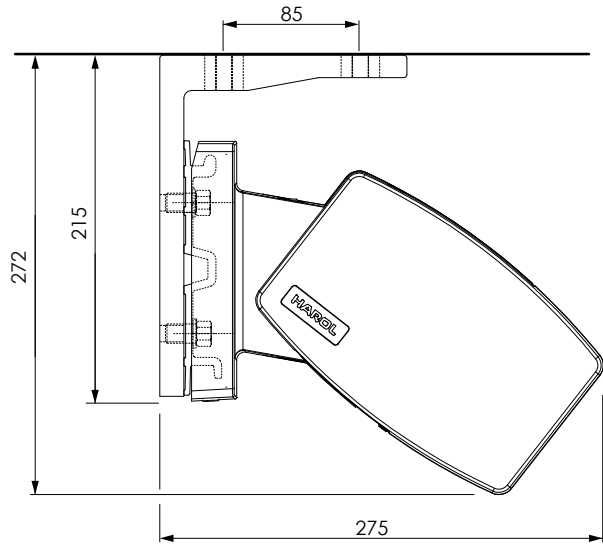
DIMENSIONS

CEILING CONSOLE

Angle **0°**



Angle **38°**



Angle **76°**

